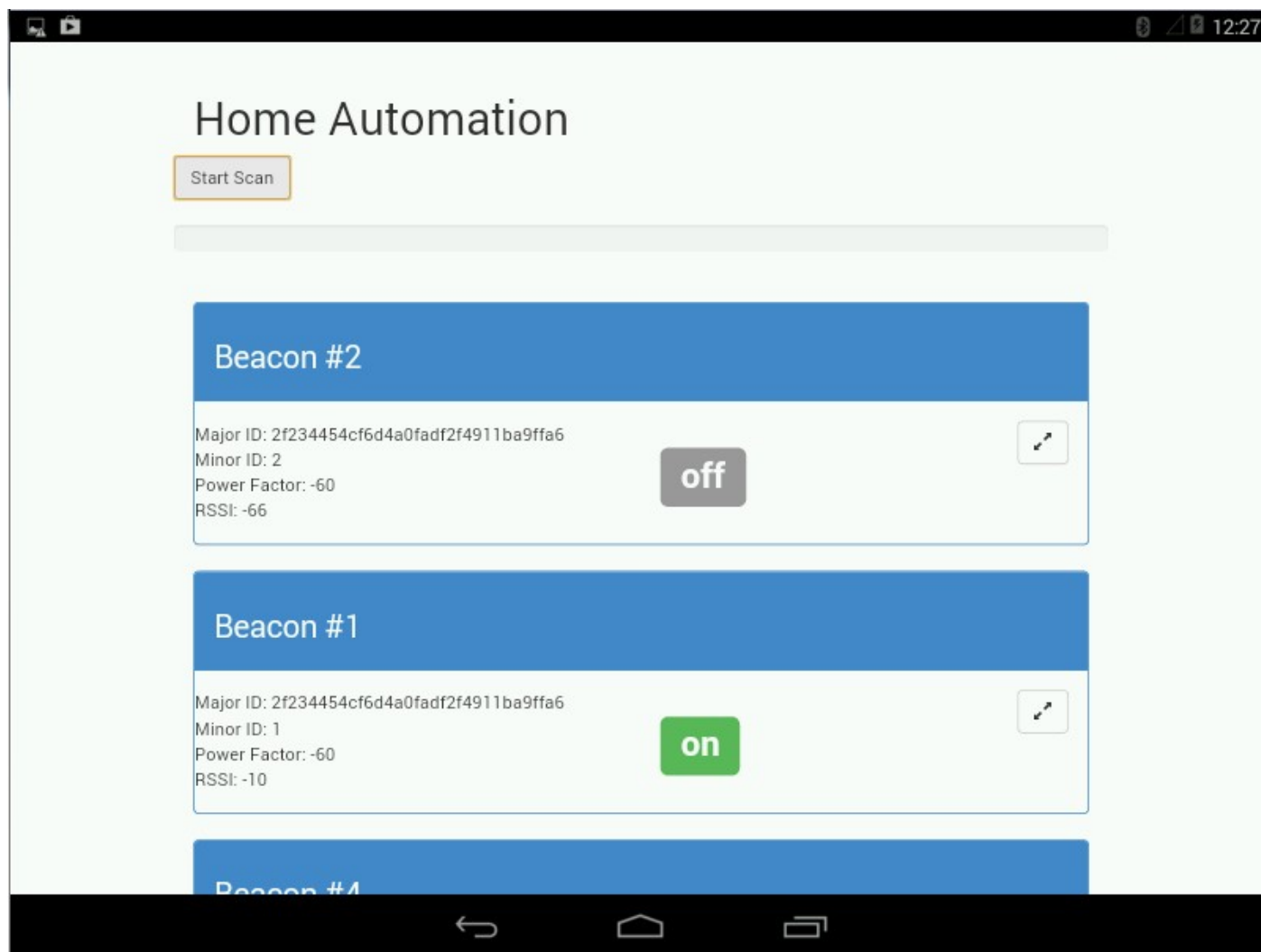# Emulate Android and Bluetooth LE hardware

Android emulators are great for developing BluetoothLE applications. The trick is getting the Android emulator to recognize the BluetoothLE adapter.

What you'll need:

- Androidx86 iso from <u>android-x86.org</u> I used the <u>4.4 release candidate</u>

- Virtual Machine software: I used <u>Oracle VirtualBox</u>

- A BluetoothLE USB adapter: I used the <u>Cirago Bluetooth 4.0 USB Mini Adapter (BTA8000)</u>

- <u>Android SDK</u> for debugging

- Install VirtualBox

- Download Androidx86

- Open VirtualBox and create a new machine. Set type to linux/other(32bit)

- Set the virtual machine's memory and harddrive space to whatever you need (but at least the minimum specs for Android).

- When asked for the OS image, select the Androidx86 image you download from Androidx86.org

- When the virtual machine boots, choose to install Android.

- When the installation completes, shutdown the Android virtual machine and unmount the iso image

- Plug in the Bluetooth USB adapter and add it to the Android Virtual Machine's settings

- Start the Android Virtual Machine and go through the start-up screens to configure Android for use

- In the Android VM go to the settings and enable BluetoothLE (if this fails reboot the VM and try to enable again)

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WRITTEN BY

Chris Larson

September is my birthday month. This year I'm doing something special for myself. I'm giving my future 40 year old self a birthday present.

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